

Wed Apr 16 08:08:21 2003

us-09-001-737-8.rapb

Page 1

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OM protein - protein search, using sw model

Run on: April 8, 2003, 14:24:57 ; Search time 37 Seconds
(without alignments)
900.517 Million cell updates/sec

Title: US-09-001-737-8

Perfect score: 2663
Sequence: 1 MAKEIFSDARAAVNGVD.....TPAPAMPAGMDPGMGMG 545

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 248812 seqs, 61136040 residues

Total number of hits satisfying chosen parameters: 248812

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 08
Maximum Match 1008
Listing first 45 summaries

Database:

Published Applications-AA: *
1: /cgn2.6/ptodata/1/pubppa/US08_NEW_PUB.pep.*
2: /cgn2.6/ptodata/1/pubppa/PC1_NEW_PUB.pep.*
3: /cgn2.6/ptodata/1/pubppa/US06_NEW_PUB.pep.*
4: /cgn2.6/ptodata/1/pubppa/US06_PUBCOMB.pep.*
5: /cgn2.6/ptodata/1/pubppa/US07_NEW_PUB.pep.*
6: /cgn2.6/ptodata/1/pubppa/US07_PUBCOMB.pep.*
7: /cgn2.6/ptodata/1/pubppa/US08_NEW_PUB.pep.*
8: /cgn2.6/ptodata/1/pubppa/US08_PUBCOMB.pep.*
9: /cgn2.6/ptodata/1/pubppa/US09_NEW_PUB.pep.*
10: /cgn2.6/ptodata/1/pubppa/US09_PUBCOMB.pep.*
11: /cgn2.6/ptodata/1/pubppa/US10_NEW_PUB.pep.*
12: /cgn2.6/ptodata/1/pubppa/US10_PUBCOMB.pep.*
13: /cgn2.6/ptodata/1/pubppa/US60_NEW_PUB.pep.*
14: /cgn2.6/ptodata/1/pubppa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Length	ID	Description
1	2358	88.5	641 9 US-10-267-311-51	Sequence 51, Appl
2	1671	62.7	541 9 US-10-051-643-160	Sequence 160, App
3	1671	62.7	541 9 US-09-880-505-160	Sequence 160, App
4	1652.5	62.1	948 9 US-10-267-311-71	Sequence 21, Appl
5	1647.5	61.9	540 9 US-09-712-363-169	Sequence 169, Appl
6	1647.5	61.9	540 9 US-10-267-311-4	Sequence 4, Appl1
7	1647.5	61.9	540 10 US-09-847-337B-6	Sequence 6, Appl1
8	1647.5	61.9	639 9 US-10-267-311-17	Sequence 17, Appl1
9	1647.5	61.9	648 9 US-10-267-311-17	Sequence 17, Appl1
10	1643	61.7	523 9 US-10-051-643-114	Sequence 29, Appl
11	1643	61.7	523 9 US-10-051-643-114	Sequence 114, App
12	1642.5	61.7	690 9 US-09-880-505-114	Sequence 114, App
13	1642.5	61.7	709 9 US-10-068-059-10	Sequence 10, Appl
14	1642.5	61.7	724 9 US-10-068-059-12	Sequence 8, Appl1
15	1639.5	61.6	746 9 US-10-068-059-6	Sequence 12, Appl
16	1601	60.1	548 9 US-09-738-626-6486	Sequence 6486, Ap
17	1507	56.6	544 10 US-09-841-132-400	Sequence 400, App
18	1492.5	56.0	538 9 US-09-738-626-4165	Sequence 4165, Ap
19	1466	55.1	544 10 US-09-759-272B-5	Sequence 5, Appl1

ALIGNMENTS

20	1392.5	52.3	647 9 US-10-267-311-53	Sequence 53, Appl
21	1341	50.4	573 10 US-09-847-637B-7	Sequence 7, Appl1
22	1340	50.3	573 10 US-09-847-637B-8	Sequence 8, Appl1
23	1336	50.2	573 10 US-09-828-574-1	Sequence 1, Appl1
24	1282	48.1	573 10 US-09-828-574-13	Sequence 13, Appl
25	1020	38.3	327 9 US-10-051-643-162	Sequence 162, App
26	1020	38.3	327 9 US-09-880-505-162	Sequence 162, App
27	992	37.3	309 9 US-10-051-643-118	Sequence 118, App
28	992	37.3	309 9 US-09-880-505-118	Sequence 118, App
29	652	24.5	215 9 US-10-051-643-117	Sequence 117, App
30	652	24.5	215 9 US-09-880-505-117	Sequence 117, App
31	614	23.1	295 9 US-10-267-311-33	Sequence 33, Appl
32	487	18.3	533 10 US-09-841-132-438	Sequence 438, App
33	399	15.0	133 10 US-09-925-301-1543	Sequence 1543, Ap
34	375	14.1	112 9 US-10-051-643-78	Sequence 78, Appl
35	375	14.1	112 9 US-09-880-505-78	Sequence 78, Appl
36	350	13.1	145 10 US-09-925-301-1542	Sequence 1542, Ap
37	348	12.9	133 9 US-10-073-623-366	Sequence 366, App
38	343	12.9	120 9 US-10-051-643-80	Sequence 80, Appl
39	343	12.9	120 9 US-09-880-505-80	Sequence 80, Appl
40	293	11.0	539 9 US-09-736-457-326	Sequence 326, App
41	293	11.0	539 9 US-09-902-941-326	Sequence 326, App
42	293	11.0	539 9 US-09-849-626-326	Sequence 326, App
43	293	11.0	539 9 US-10-017-754-326	Sequence 326, App
44	262.5	9.9	168 10 US-09-925-300-1216	Sequence 1216, Ap
45	252	9.5	558 10 US-09-925-300-1216	Sequence 1216, Ap

RESULT 1

US-10-267-311-51
Sequence 51, Application US/10267311
Publication No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chiu, N. Randall
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10/267,311
PRIOR FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 51
LENGTH: 641
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: fusion sequence
US-10-267-311-51
Query Match 88.5%; Score 2358; DB 9; Length 641;
Best Local Similarity 87.9%; Pred. No. 6.9e+144;
Matches 479; Conservative 33; Mismatches 29; Indels 4; Gaps 1;
OY 1 MAKEIFSDARAAVNGVDMLADTVKTLGAPGRNVLEKAFSPPLINDGVTAKEIE 60
DB 1 MAKEIFSDARAAVNGVDLADTVKTLGAPGRNVLEKAFSPPLINDGVTAKEIE 60
OY LEHFEFNGAKIVEVASKTNDIAGDGTTRATVLTQAIYHGLKNTAGANIGRCIE 120
DB 61 LEHFEFNGAKIVEVASKTNDIAGDGTTRATVLTQAIYHGLKNTAGANIGRCIE 120
OY LEHFEFNGAKIVEVASKTNDIAGDGTTRATVLTQAIYHGLKNTAGANIGRCIE 120
DB 61 LEHFEFNGAKIVEVASKTNDIAGDGTTRATVLTQAIYHGLKNTAGANIGRCIE 120
OY TATATVETLAKIOPISGKEALIAOVAVSSSEKKEGIESEAMERVNDGVITIESSR 180
DB 121 TATATVETLAKIOPISGKEALIAOVAVSSSEKKEGIESEAMERVNDGVITIESSR 180
OY TATATVETLAKIOPISGKEALIAOVAVSSSEKKEGIESEAMERVNDGVITIESSR 180
DB 121 TATATVETLAKIOPISGKEALIAOVAVSSSEKKEGIESEAMERVNDGVITIESSR 180

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Oy 181 METELEVEGMOFDRGYSQYVWTDNEKNVADLENPELITDKKVSNIQDITPLEEVK 240
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 METELEVEGMOFDRGYSQYVWTDSEKNVADLENPELITDKKVSNIQDITPLEESIQ 240
Oy 241 TNRPLLIADVDGEALPTLVNKRIGTFENVYAVAPGDFDRKAMLEIDIALIGGVIT 300
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 241 TNRPLLIADVDGEALPTLVNKRIGTFENVYAVAPGDFDRKAMLEIDIALIGGVIT 300
Oy 301 EDGIELEKDMATMLGOAAKITVDKSTYVVEGSSSEAIANRIALIKSQLETTSDPR 360
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 301 EDGIELEKDMATMLGOAAKITVDKSTYVVEGSSSEAIANRIALIKSQLETTSDPR 360
Oy 361 EKLOERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEEIVAGGCTALITV 420
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLOERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEEIVAGGCTALITV 420
Oy 421 IERVALELESDATGRNIVLALPEEPVQIALNAGYEGSVYIDKLNKPAGTGFNAATG 480
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 421 IERVALELESDATGRNIVLALPEEPVQIALNAGYEGSVYIDKLNKPAGTGFNAATG 480
Oy 481 EYVDMIKTGIIDPVKTRSAQNAAVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 481 EYVDMIKTGIIDPVKTRSAQNAAVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
Oy 541 GCMG 545
    |||||
Db 537 GCMG 541

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RESULT 2
US-10-051-643-160
: Sequence 160, Application US/10051643
: Publication No. US20020197265A1
: GENERAL INFORMATION:
: APPLICANT: Watson, James D.
: APPLICANT: Tan, Paul L. J.
: TITLE OF INVENTION: Methods and Compounds for the Treatment
: TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
: FILE REFERENCE: 11000.1008C
: CURRENT FILING DATE: US/10/051.643
: PRIOR FILING DATE: 2002-01-18
: PRIOR APPLICATION NUMBER: US09/156.181
: PRIOR FILING DATE: 1998-09-17
: PRIOR APPLICATION NUMBER: US 08/996.624
: NUMBER OF SEQ ID NOS: 208
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO: 160
: LENGTH: 541
: TYPE: PRT
: ORGANISM: Mycobacterium vaccae
US-10-051-643-160

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Query Match      62.7%; Score 1671; DB 9; Length 541;
Best Local Similarity 62.1%; Pred. No. 7.3e-100;
Matches 337; Conservative 84; Mismatches 118; Indels 4; Gaps 1;
Oy 1 MAKEIKESADARAAMVGVMDLADTVKYLGPGRNVVLEKAFGSPFITNDGVTIAKEIE 60
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Db 1 MAKTIAYDEARRGLEGRGLNALDAVAVTLGPGRNVVLEKMGAPFITNDGVSIAKEIE 60
Oy 61 LEDHEENMGAKLSEVASKTNDIAGDGTATVLTQAVHEGLKNTVAGANPISIRGIE 120
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LEDPYEKIGAEIVKAKKTDVAGDGTATVLTQAVHEGLKNTVAGANPISIRGIE 120
Oy 121 TATATVAEALKAIAOPVSGKEALIAOVAANSRSEKVEYISEAMERVGNDCVITIEBSG 180
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KAVAVYOSLSAKAEVEKEQISATPAISAGDQIGELIAEAMKRGNSGVITVESNT 180
Oy 181 METELEVEGMOFDRGYSQYVWTDNEKNVADLENPELITDKKVSNIQDITPLEEVK 240
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 FGLQLELTGEMRDGYSISGFYVDAEREAVALDEPPIILVSSKSVKDLPLEEKVIO 240

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Oy 241 TNRPLLIADVDGEALPTLVNKRIGTFENVYAVAPGDFDRKAMLEIDIALIGGVIT 300
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Db 241 AKRPILLIIEVEGEALSTLVNKRIGTFENVYAVAPGDFDRKAMLEIDIALIGGVIT 300
Oy 301 EDGIELEKDMATMLGOAAKITVDKSTYVVEGSSSEAIANRIALIKSQLETTSDPR 360
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 301 ERGASLELAVSLGQARKVYVTKDETTIEGSDSDAIGRAVADIRAEIENDSDYDR 360
Oy 361 EKLOERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEEIVAGGCTALITV 420
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLOERLAKLAGVAVIKGAPETALKEKRLIEDALNATRAVEEIVAGGCTALITV 420
Oy 421 IERVALELESDATGRNIVLALPEEPVQIALNAGYEGSVYIDKLNKPAGTGFNAATG 480
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 421 APALDGLTIGDEATGANIVRALSDPKQIAFNGLGEPGVAKESNLPAGHGLNATG 480
Oy 481 EYVDMIKTGIIDPVKTRSAQNAAVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 481 EYDLELKGAVADPVKTRSAQNAAVASLITTEAVVADKPEKA-----SAPADDPGGM 536
Oy 541 GCM 543
    |||||
Db 537 GCM 539

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RESULT 3
US-09-880-505-160
: Sequence 160, Application US/09880505
: Publication No. US20030007976A1
: GENERAL INFORMATION:
: APPLICANT: Watson, James D.
: APPLICANT: Tan, Paul L. J.
: APPLICANT: Prestidge, Ross
: TITLE OF INVENTION: Methods and Compounds for the Treatment
: TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
: FILE REFERENCE: 11000.1007C2
: CURRENT FILING DATE: US/09/880.505
: PRIOR FILING DATE: 2001-06-13
: PRIOR APPLICATION NUMBER: US 09/324.542
: PRIOR FILING DATE: 1999-06-02
: PRIOR APPLICATION NUMBER: US 08/997.080
: NUMBER OF SEQ ID NOS: 194
: SOFTWARE: FastSeq for Windows Version 3.0
: SEQ ID NO: 160
: LENGTH: 541
: TYPE: PRT
: ORGANISM: Mycobacterium vaccae
US-09-880-505-160

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Query Match      62.7%; Score 1671; DB 9; Length 541;
Best Local Similarity 62.1%; Pred. No. 7.3e-100;
Matches 337; Conservative 84; Mismatches 118; Indels 4; Gaps 1;
Oy 1 MAKEIKESADARAAMVGVMDLADTVKYLGPGRNVVLEKAFGSPFITNDGVTIAKEIE 60
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Db 1 MAKTIAYDEARRGLEGRGLNALDAVAVTLGPGRNVVLEKMGAPFITNDGVSIAKEIE 60
Oy 61 LEDHEENMGAKLSEVASKTNDIAGDGTATVLTQAVHEGLKNTVAGANPISIRGIE 120
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LEDPYEKIGAEIVKAKKTDVAGDGTATVLTQAVHEGLKNTVAGANPISIRGIE 120
Oy 121 TATATVAEALKAIAOPVSGKEALIAOVAANSRSEKVEYISEAMERVGNDCVITIEBSG 180
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KAVAVYOSLSAKAEVEKEQISATPAISAGDQIGELIAEAMKRGNSGVITVESNT 180
Oy 181 METELEVEGMOFDRGYSQYVWTDNEKNVADLENPELITDKKVSNIQDITPLEEVK 240
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 FGLQLELTGEMRDGYSISGFYVDAEREAVALDEPPIILVSSKSVKDLPLEEKVIO 240
Oy 241 TNRPLLIADVDGEALPTLVNKRIGTFENVYAVAPGDFDRKAMLEIDIALIGGVIT 300
    |||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Db 241 AGPRLIIAEDVEGEALSTLVYVNRIGTFKSVAVKAPGGRKAMLOMALITNGGVVS 300
Qy 301 EDIGLELDKATMTALQAAKITVDKSTVIEGSGSSPAIANRILIKSOLETTSPDFR 360
Db 301 ERYGLSTLEADVSLIGARKVYVTKDEFTIVGSSGDSALINGRAQIRAEIENSOSYDR 360
Qy 361 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNAPRAVEEGIVAGGTAITV 420
Db 361 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNAPRAVEEGIVAGGTAITV 420
Qy 421 IEKVAALEEGDAGTGRNIVRALBEPYROTALNAGYEGSVYIDKLSNPAGTGFNAATG 480
Db 421 APLDDELKDEGAGNIVKVALBAPKQIAFNSGLEPGVVAEKVSNLPAGHGLNAAQTG 480
Qy 481 EYVDMIKTGIIIDPVYKTRSAALQNAASVALITTEAVVANKPEPATPAPAMPAGMDPKM 540
Db 481 EYEDLLKAGVADPVKVTRSALQNAASIALFLITTEAVVADKPEKA---SAPAGDPTGGM 536
Qy 541 GGM 543
Db 537 GGM 539

RESULT 4
US-10-267-311-21

Sequence 21, Application US/10267311
Publication No. US20030050469A1
GENERAL INFORMATION:
APPLICANT: Siegel, Marvin
APPLICANT: Chu, N. Randall
APPLICANT: Mitten, Lee A.
TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
FILE REFERENCE: 12071/002001
CURRENT APPLICATION NUMBER: US/10-267,311
CURRENT FILING DATE: 2002-10-09
PRIOR APPLICATION NUMBER: US/09/613,303
PRIOR FILING DATE: 2000-07-10
PRIOR APPLICATION NUMBER: US 60/143,757
PRIOR FILING DATE: 1999-07-08
NUMBER OF SEQ ID NOS: 55
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 21
LENGTH: 948
TYPE: PRT
ORGANISM: Artificial Sequence
OTHER INFORMATION: fusion sequence
US-10-267-311-21

Query Match 62.1% Score 1652.5; DB 9; Length 948;
Best Local Similarity 60.7%; Pred. No. 2,4e-98;
Matches 332; Conservative 87; Mismatches 125; Indels 3; Gaps 1;

Qy 1 MAKEIKFSADARAAMRGVMDLADTVKVTLGPRGNVLEKAGSPILITNDGYTIKKEI 60
Db 21 MAKTIADDEARGLERGLNLADAVKVTLGPRGNVLEKKGAPITINDGVSIKKEI 80
Qy 61 LEDHEENAGKLVSEVASKTNDIAGDGTATATVLTQAVHEGLKNTAGAPIGIRGIE 120
Db 81 LEDPEYKIGAEIVKAKKTDVAGDGTATATVLAQALVREGLRNVAAGAMPGLKRGIE 140
Qy 121 TATATAVEALKAIAPVSGKEAIAQVAASRSREKVEYISEAMERVGNDOVITIEESG 180
Db 141 KAVETVETLLKGAKEVETKEQIAATAAISAGDOSIDLALBEMKVENEGVITVESNT 200
Qy 181 METELEVEGNOFDRGYLSOYMTDNEKMYADLNPELITDKKYSNIDILCEVILK 240
Db 201 FGLLELTBEGRMDKGYISGFTYDPEREAVLEDPITILVSSKSYVXDLPLERKYG 260
Qy 241 TNRPELLIADVDGALPTLVKIKGTNNVYAKAPGSDRRKAMLEDAITLGGTVIT 300
Db 261 AKPLIITAEVGEALSTLVYVNRIGTFKSVAVKAPGGRKAMLOMALITNGGVVS 320

Qy 301 EDIGLELDKATMTALQAAKITVDKSTVIEGSGSSPAIANRILIKSOLETTSPDFR 360
Db 321 EBYVLTENADSLIGARKVYVTKDEFTIVGSGDSALINGRAQIRAEIENSOSYDR 360
Qy 361 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNAPRAVEEGIVAGGTAITV 420
Db 381 EKLOERLAKLAGVAVIKGAPTEALKEMKLRIDALNAPRAVEEGIVAGGTAITV 440
Qy 421 IEKVAALEEGDAGTGRNIVRALBEPYROTALNAGYEGSVYIDKLSNPAGTGFNAATG 480
Db 441 APLDDELKDEGAGNIVKVALBAPKQIAFNSGLEPGVVAEKVSNLPAGHGLNAAQTG 500
Qy 481 EYVDMIKTGIIIDPVYKTRSAALQNAASVALITTEAVVANKPE---PATPAPAMPAGMDP 537
Db 501 YVEDLLAAGVADPVKVTRSALQNAASIALFLITTEAVVADKPEKASVPGGSDGMDP 560
Qy 538 GGMGGM 544
Db 561 ASNGSIG 567

RESULT 5
US-09-712-363-169

Sequence 169, Application US/09712363
Patent No. US20020164588A1
GENERAL INFORMATION:
APPLICANT: Eisenberg, David
APPLICANT: Rotstein, Sergio H.
APPLICANT: Marcotte, Edward M.
TITLE OF INVENTION: DETERMINING THE FUNCTIONS AND
FILE REFERENCE: 07419-032001
CURRENT APPLICATION NUMBER: US/09/712,363
CURRENT FILING DATE: 2000-11-13
PRIOR APPLICATION NUMBER: PCT/US00/02246
PRIOR FILING DATE: 2000-01-28
PRIOR APPLICATION NUMBER: 60/179,531
PRIOR FILING DATE: 2000-02-01
PRIOR APPLICATION NUMBER: 60/117,844
PRIOR FILING DATE: 1999-01-29
PRIOR APPLICATION NUMBER: 60/118,206,
PRIOR FILING DATE: 1999-02-01
PRIOR APPLICATION NUMBER: 60/126,593
PRIOR FILING DATE: 1999-03-26
PRIOR APPLICATION NUMBER: 60/134,093
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/134,092
PRIOR FILING DATE: 1999-05-14
PRIOR APPLICATION NUMBER: 60/165,124
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 60/165,086
PRIOR FILING DATE: 1999-11-12
NUMBER OF SEQ ID NOS: 292
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 169
LENGTH: 540
TYPE: PRT
ORGANISM: Mycobacterium tuberculosis
US-09-712-363-169

Query Match 61.9% Score 1647.5; DB 9; Length 540;
Best Local Similarity 61.1%; Pred. No. 2,4e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

Qy 1 MAKEIKFSADARAAMRGVMDLADTVKVTLGPRGNVLEKAGSPILITNDGYTIKKEI 60
Db 1 MAKTIADDEARGLERGLNLADAVKVTLGPRGNVLEKKGAPITINDGVSIKKEI 80
Qy 61 LEDHEENAGKLVSEVASKTNDIAGDGTATATVLTQAVHEGLKNTAGAPIGIRGIE 120
Db 61 LEDPEYKIGAEIVKAKKTDVAGDGTATATVLAQALVREGLRNVAAGAMPGLKRGIE 120
Qy 121 TATATAVEALKAIAPVSGKEAIAQVAASRSREKVEYISEAMERVGNDOVITIEESG 180

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Db 121 KAVEVETETLLKGAKEVEKQIATATATSAISGDSISGDLIAEMDMVGEVITVEESNT 180
Oy 181 METELEVEGMOQDRGYLSQYWTNDNEKNVADLENPFLITIDKKVSNIDILPLEEVLK 240
Db 181 FGLQLETEGKRFDPKGYISGYFTVDPEROEAVLEDPYILTVSSVSVKQPLILEKXIG 240
Oy 241 TNRPLLIINDVDDEALPTLVNKRIGTFENVAVAPGCDRRKALMEDIALITGCVIT 300
Db 241 AGRPPLIINDEVEBEALSTLVNKRIGTFENVAVAPGCDRRKALMEDIALITGCVIS 300
Oy 301 EDGLLEKATMTALGOAKITVDKSTVYEGSSSEAIANRILIKSOLLETTSDPDR 360
Db 301 EEEGTLLENADLSLGLKARKVYVTKDETTIEGAGDDDALAGVNAQIOELNEDSDYXR 360
Oy 361 EKIOERLAKLAGVAIVIKVAPTEALKEKRLIEDALNTRAABEGIVAGGCTALITV 420
Db 361 EKIOERLAKLAGVAIVIKVAPTEALKEKRLIEDALNTRAABEGIVAGGCTALITV 420
Oy 421 IEKVALELEDGDATGRNIVLRALPEEVRQIALNAGIEGVSVIDKLNSPAGTFNAATG 480
Db 421 APTLEDELKLEDDATGANIVKVALEAPLKOIAFNSGLEPGVAEKVRLLPAGHGLNAOTG 480
Oy 481 EWDIMKTGIIDPVKVTBSALONASVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
Db 481 VIEDLLAGVADPVKVTBSALONASIASGLFLETTEAVVADKPE--KEKASVPGG--GDM 535
Oy 541 GGM 543
Db 536 GGM 538

```

RESULT 6

```

US-10-267-311-4
: Sequence 4, Application US/10267311
: Publication No. US20030050469A1
: GENERAL INFORMATION:
: APPLICANT: Siegel, Marvin
: APPLICANT: Chu, N. Randall
: APPLICANT: Mizzen, Joe A.
: TITLE OF INVENTION: INDUCTION OF A TH1-LIKE RESPONSE IN VITRO
: FILE REFERENCE: 12071/002801
: CURRENT APPLICATION NUMBER: US/10/267,311
: PRIOR FILING DATE: 2002-10-09
: PRIOR APPLICATION NUMBER: US/09/513,303
: PRIOR FILING DATE: 2000-07-10
: PRIOR APPLICATION NUMBER: US 60/143,757
: NUMBER OF SEQ ID NOS: 55
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 4
: LENGTH: 540
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: fusion sequence
US-10-267-311-4

```

```

Query Match 61.9%; Score 1647.5; DB 9; Length 540;
Best Local Similarity 61.1%; Pred. No. 2,4e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

```

```

Oy 1 MAKEIKESADARAARVGVMDLADTVKVTLCGPKGRNVYLEKAFSGPLITNDGVTIAKEIE 60
Db 1 MAKTIATIDEARRGLEKGLNALADAVKVTLCGPKGRNVYLEKAFSGPLITNDGVTIAKEIE 60
Oy 61 LEDHEENMGAKLVSEVASKTNDIAGDGTATVTLQAIYHEGLKNVTAGANPILGRIGIE 120
Db 61 LEDPEKIGAELEKVEAKKTDVAGDGTATVTLQAIYHEGLKNVTAGANPILGRIGIE 120
Oy 121 TATATAVETLLKGAKEVEKQIATATATSAISGDSISGDLIAEMDMVGEVITVEESNT 180
Db 121 KAVEVETETLLKGAKEVEKQIATATATSAISGDSISGDLIAEMDMVGEVITVEESNT 180

```

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Oy 181 METELEVEGMOQDRGYLSQYWTNDNEKNVADLENPFLITIDKKVSNIDILPLEEVLK 240
Db 181 FGLQLETEGKRFDPKGYISGYFTVDPEROEAVLEDPYILTVSSVSVKQPLILEKXIG 240
Oy 241 TNRPLLIINDVDDEALPTLVNKRIGTFENVAVAPGCDRRKALMEDIALITGCVIT 300
Db 241 AGRPPLIINDEVEBEALSTLVNKRIGTFENVAVAPGCDRRKALMEDIALITGCVIS 300
Oy 301 EDGLLEKATMTALGOAKITVDKSTVYEGSSSEAIANRILIKSOLLETTSDPDR 360
Db 301 EEEGTLLENADLSLGLKARKVYVTKDETTIEGAGDDDALAGVNAQIOELNEDSDYXR 360
Oy 361 EKIOERLAKLAGVAIVIKVAPTEALKEKRLIEDALNTRAABEGIVAGGCTALITV 420
Db 361 EKIOERLAKLAGVAIVIKVAPTEALKEKRLIEDALNTRAABEGIVAGGCTALITV 420
Oy 421 IEKVALELEDGDATGRNIVLRALPEEVRQIALNAGIEGVSVIDKLNSPAGTFNAATG 480
Db 421 APTLEDELKLEDDATGANIVKVALEAPLKOIAFNSGLEPGVAEKVRLLPAGHGLNAOTG 480
Oy 481 EWDIMKTGIIDPVKVTBSALONASVASLITTEAVVANKPEPATPAPAMPAGMDPGM 540
Db 481 VIEDLLAGVADPVKVTBSALONASIASGLFLETTEAVVADKPE--KEKASVPGG--GDM 535
Oy 541 GGM 543
Db 536 GGM 538

```

RESULT 7

```

US-09-847-637B-6
: Sequence 6, Application US/09847637B
: Patent No. US20020150586A1
: GENERAL INFORMATION:
: APPLICANT: Naparstek, Yaakov
: APPLICANT: Ulmansky, Rina
: APPLICANT: Kashi, Yecheskel
: TITLE OF INVENTION: NOVEL AMINO ACID SEQUENCES, DNA ENCODING
: TITLE OF INVENTION: THE AMINO ACID SEQUENCES, ANTIBODIES DIRECTED
: FILE REFERENCE: 13125-002001
: CURRENT APPLICATION NUMBER: US/09/847,637B
: PRIOR FILING DATE: 2001-05-02
: PRIOR APPLICATION NUMBER: PCT/IL99/00595
: PRIOR FILING DATE: 1999-11-04
: PRIOR APPLICATION NUMBER: 60/107,213
: NUMBER OF SEQ ID NOS: 9
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 6
: LENGTH: 540
: TYPE: PRT
: ORGANISM: Mycobacterium tuberculosis
US-09-847-637B-6

```

```

Query Match 61.9%; Score 1647.5; DB 10; Length 540;
Best Local Similarity 61.1%; Pred. No. 2,4e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 4; Gaps 2;

```

```

Oy 1 MAKEIKESADARAARVGVMDLADTVKVTLCGPKGRNVYLEKAFSGPLITNDGVTIAKEIE 60
Db 1 MAKTIATIDEARRGLEKGLNALADAVKVTLCGPKGRNVYLEKAFSGPLITNDGVTIAKEIE 60
Oy 61 LEDHEENMGAKLVSEVASKTNDIAGDGTATVTLQAIYHEGLKNVTAGANPILGRIGIE 120
Db 61 LEDPEKIGAELEKVEAKKTDVAGDGTATVTLQAIYHEGLKNVTAGANPILGRIGIE 120
Oy 121 TATATAVETLLKGAKEVEKQIATATATSAISGDSISGDLIAEMDMVGEVITVEESNT 180
Db 121 KAVEVETETLLKGAKEVEKQIATATATSAISGDSISGDLIAEMDMVGEVITVEESNT 180
Oy 181 METELEVEGMOQDRGYLSQYWTNDNEKNVADLENPFLITIDKKVSNIDILPLEEVLK 240

```

Wed Apr 16 08:08:21 2003

us-09-001-737-8.rapb

Page 5

```
Db 181 FGLOLELEFEGMRFDKCYISGFVYDPPROGAVLEDPYILLVSSKSVTVADLPLEEVIG 240
QY 241 TNRPLLIADVDGEBALPTVLNKRIGTFENVVAAPGFGDRRRKAMLEDAIILGTGVIT 300
Db 241 AGKPLLIIDVDEGEBALSTLVNKRIGTFENVVAAPGFGDRRRKAMLEDAIILGTGVIT 300
QY 301 EDLGLLEKDATWTALGOAAKITVDKOSTVIVGSSGSEAIANRIALIKSOLLETTSDPDR 360
Db 301 EEWGLTLENADSLTGKARKVYVTKDETTIVGAGDDTDAIAGVAVQIROEIEIENDSDYDR 360
QY 361 EKLDERLAKLAGVAVIKVGAAPETALKEKRLIEDALNTRAAVEGIVAGGCTALITV 420
Db 361 EKLDERLAKLAGVAVIKVGAATEVELEKRRHRIEDAVRNKAAVEEGIVAGGCTALITV 420
QY 421 IEKVALELEGGDATTGRNIVLRALEPFOIALNAGYEGSVYIDKLKNSPAGTFNATG 480
Db 421 APTLDELKLEGDEATGANIVKVALEAPLKOIAFNPSGLEPQVAAEKVRLPAGHGLNAGTG 480
QY 481 EMDVMTKGTIIDPVKTRTSALONAAVSLITTEAVVANKPEPATPAPAMPAGMDQGM 540
Db 481 VEDDLAAGVADPVKTVTRTSALONAAVSLITTEAVVADKPE--KEKASVPGG---GDM 535
QY 541 GGM 543
Db 536 GGM 538
```

```
RESULT 8
US-10-267-311-17
; Sequence 17, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Milzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 17
; LENGTH: 639
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-17
```

Query Match 61.9%; Score 1647.5; DB 9; Length 639;
Best Local Similarity 61.1%; Pred. No. 3e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

```
QY 1 MAKEIFSDARAAVRGVMDLADTVKVTIGPKGRNVYLEKAFSGSLITNDGVTIAKEIE 60
Db 1 MAKTIAYDEARARGLEGLNADLVKTLGPKRRNVYLEKKGAPITINDGVSIAKEIE 60
QY 61 LEDHEFMGAKLYSEVASTNDIAGDCTTATVLTQAIYHEGLKNTVAGANPAGIRRGIE 120
Db 61 LEDPYEKIGALVEVAKRTDVGADDTTATVLTQALVREGLRNVAAGANPAGIRRGIE 120
QY 121 TATATAVEALKAIAPVSGKEAIAQVAASVSRSEKVEYISSEAMERVNDGVITIEESRG 180
Db 121 KAVEKYTEETLLKGAKEVEKEIOIAATAAISAGDOSIDDIAEAMKXGNCGVITVEESRT 180
QY 181 METELEVEVGQDFRGYLSQYVWTDNEKNVADLENPFILITDKKVSNIODILPLEEVYK 240
Db 181 FGLOLELEFEGMRFDKCYISGFVYDPPROGAVLEDPYILLVSSKSVTVADLPLEEVIG 240
```

```
QY 241 TNRPLLIADVDGEBALPTVLNKRIGTFENVVAAPGFGDRRRKAMLEDAIILGTGVIT 300
Db 241 AGKPLLIIDVDEGEBALSTLVNKRIGTFENVVAAPGFGDRRRKAMLEDAIILGTGVIT 300
QY 301 EDLGLLEKDATWTALGOAAKITVDKOSTVIVGSSGSEAIANRIALIKSOLLETTSDPDR 360
Db 301 EEWGLTLENADSLTGKARKVYVTKDETTIVGAGDDTDAIAGVAVQIROEIEIENDSDYDR 360
QY 361 EKLDERLAKLAGVAVIKVGAAPETALKEKRLIEDALNTRAAVEGIVAGGCTALITV 420
Db 361 EKLDERLAKLAGVAVIKVGAATEVELEKRRHRIEDAVRNKAAVEEGIVAGGCTALITV 420
QY 421 IEKVALELEGGDATTGRNIVLRALEPFOIALNAGYEGSVYIDKLKNSPAGTFNATG 480
Db 421 APTLDELKLEGDEATGANIVKVALEAPLKOIAFNPSGLEPQVAAEKVRLPAGHGLNAGTG 480
QY 481 EMDVMTKGTIIDPVKTRTSALONAAVSLITTEAVVANKPEPATPAPAMPAGMDQGM 540
Db 481 VEDDLAAGVADPVKTVTRTSALONAAVSLITTEAVVADKPE--KEKASVPGG---GDM 535
QY 541 GGM 543
Db 536 GGM 538
```

```
RESULT 9
US-10-267-311-29
; Sequence 29, Application US/10267311
; Publication No. US20030050469A1
; GENERAL INFORMATION:
; APPLICANT: Siegel, Marvin
; APPLICANT: Chu, N. Randall
; APPLICANT: Milzen, Lee A.
; TITLE OF INVENTION: INDUCTION OF A THI-LIKE RESPONSE IN VITRO
; FILE REFERENCE: 12071/002001
; CURRENT APPLICATION NUMBER: US/10/267,311
; PRIOR FILING DATE: 2002-10-09
; PRIOR APPLICATION NUMBER: US/09/613,303
; PRIOR FILING DATE: 2000-07-10
; PRIOR APPLICATION NUMBER: US 60/143,757
; PRIOR FILING DATE: 1999-07-08
; NUMBER OF SEQ ID NOS: 55
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 29
; LENGTH: 648
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: fusion sequence
US-10-267-311-29
```

Query Match 61.9%; Score 1647.5; DB 9; Length 648;
Best Local Similarity 61.1%; Pred. No. 3e-98;
Matches 332; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

```
QY 1 MAKEIFSDARAAVRGVMDLADTVKVTIGPKGRNVYLEKAFSGSLITNDGVTIAKEIE 60
Db 109 MAKTIAYDEARARGLEGLNADLVKTLGPKGRNVYLEKKGAPITINDGVSIAKEIE 168
QY 61 LEDHEFMGAKLYSEVASTNDIAGDCTTATVLTQAIYHEGLKNTVAGANPAGIRRGIE 120
Db 169 LEDPYEKIGALVEVAKRTDVGADDTTATVLTQALVREGLRNVAAGANPAGIRRGIE 228
QY 121 TATATAVEALKAIAPVSGKEAIAQVAASVSRSEKVEYISSEAMERVNDGVITIEESRG 180
Db 229 KAVEKYTEETLLKGAKEVEKEIOIAATAAISAGDOSIDDIAEAMKXGNCGVITVEESRT 288
QY 181 METELEVEVGQDFRGYLSQYVWTDNEKNVADLENPFILITDKKVSNIODILPLEEVYK 240
Db 289 FGLOLELEFEGMRFDKCYISGFVYDPPROGAVLEDPYILLVSSKSVTVADLPLEEVIG 348
QY 241 TNRPLLIADVDGEBALPTVLNKRIGTFENVVAAPGFGDRRRKAMLEDAIILGTGVIT 300
```

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Db 349 AGPRLIIAEVGEALSTLVNKRIGFKFSVAKPFGDRRAALOMALITGGGVIS 408
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 301 EDLGLKATMTALGOAKITVDKSTVIEGSSSEAIANRILIKSOLETTSPDR 360
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 409 EEWGLTEADLSLGGARKVYVTKDETTIVBAGDTAINGRAIROIENSDDDR 468
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDALNAPRAVEGIYAGGALTIV 420
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 469 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDAVRNKAAVEGIYAGGALTIV 528
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 421 IEKVALEEDDGTGRNIVRLALEEVRIOALNAGVSVIIDLKNSPAGTGFAATG 480
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 529 APLDGLGTDEBANTANIVRALAPLKOAFNGLGEPGVAKVRNLPAGHGLAATG 588
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 481 EYEDMKIGIIPDKVTRRSALONASVASLITTEAVVANKPEPATPAPAPAGMDPGM 540
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 589 VIEDLAKGADVPKVTIRSLONASIASLITTEAVVADKPE--KERASVPG--GDM 643
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 541 GDM 543
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 644 GDM 646
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 10
US-10-051-643-114
/ Sequence 114, Application US/10051643
/ Publication No. US20020197265A1
/ GENERAL INFORMATION:
/ APPLICANT: Watson, James D.
/ APPLICANT: Tan, Paul L. J.
/ TITLE OF INVENTION: Methods and Compounds for the Treatment
/ TITLE OF INVENTION: of Immunologically-Mediated Diseases of the Respiratory
/ FILE REFERENCE: 11000.1008C2
/ CURRENT APPLICATION NUMBER: US/10/051.643
/ PRIOR FILING DATE: 2002-01-18
/ PRIOR APPLICATION NUMBER: US09/156.181
/ PRIOR FILING DATE: 1998-09-17
/ PRIOR APPLICATION NUMBER: US 08/996.624
/ NUMBER OF SEQ ID NOS: 208
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 114
/ LENGTH: 523
/ TYPE: PR
/ ORGANISM: Mycobacterium vaccae
US-10-051-643-114

Query Match 61.7%; Score 1643; DB 9; Length 523;
Best Local Similarity 62.7%; Pred. No. 4,4e-98;
Matches 328; Conservative 83; Mismatches 112; Indels 0; Gaps 0;

Oy 1 MAKEIKFSADARAAMVGVDMADTVKTLGPKGRNVYLEKAFSGPLITNDGVYIAKEIE 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MAKTIADDEARFGLERGLNALADAVKTLGPKGRNVYLEKKNKCAPTITNDGVSTAKEIE 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 61 LEDHEFMGAKLVSEVASKTNDIAGDGTATVLTQAIYHGLKNTVYAGANPGRIGIE 120
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LEDPEYKIGALVELYKAKTIDVAGDGTATVLTQALVREGLRNVAAGANPGLKRGIE 120
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 121 TATATVAEALKAIAQVSGKEAIAQVAASRSSEKVEYISAEAMERVNDGVITIEESRG 180
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KAVEAVTOSLLSAKEVEYETKEQISATPAISAGDTQIGELIAEAMDKVNEGVIIEESNT 180
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 181 MELEVEVGEKQDFRGYLSQVMTDNEKVMADLENPELITTDKVSNIIDITLLEEVYK 240
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 FGLQLETEBEMFHDGYISGFVYTDAREAVLEDPYILVSSKSVYKQDLPLEKYVQ 240
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 241 TNRPLLIADVDGEALPTLVNKRIGTFNVAAKAPGDRRRKAMLEDAITLGGTYVT 300
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 241 TNRPLLIADVDGEALPTLVNKRIGTFNVAAKAPGDRRRKAMLEDAITLGGTYVT 300
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDALNAPRAVEGIYAGGALTIV 420
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDAVRNKAAVEGIYAGGALTIV 528
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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Oy 301 EDLGLKATMTALGOAKITVDKSTVIEGSSSEAIANRILIKSOLETTSPDR 360
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 301 EEWGLTEADLSLGGARKVYVTKDETTIVBAGDTAINGRAIROIENSDDDR 360
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDALNAPRAVEGIYAGGALTIV 420
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDAVRNKAAVEGIYAGGALTIV 528
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 421 IEKVALEEDDGTGRNIVRLALEEVRIOALNAGVSVIIDLKNSPAGTGFAATG 480
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 421 APLDGLGTDEBANTANIVRALAPLKOAFNGLGEPGVAKVRNLPAGHGLAATG 480
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 481 EYEDMKIGIIPDKVTRRSALONASVASLITTEAVVANKPEPATPAPAPAGMDPGM 540
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 481 EYEDLAKGADVPKVTIRSLONASIASLITTEAVVADKPE--KERASVPG--GDM 523
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

RESULT 11
US-09-880-505-114
/ Sequence 114, Application US/09880505
/ Publication No. US2003007976A1
/ GENERAL INFORMATION:
/ APPLICANT: Watson, James D.
/ APPLICANT: Tan, Paul L.J.
/ TITLE OF INVENTION: Methods and Compounds for the Treatment
/ TITLE OF INVENTION: of Immunologically-Mediated Skin Disorders
/ FILE REFERENCE: 11000.1007C2
/ CURRENT APPLICATION NUMBER: US/09/880.505
/ PRIOR FILING DATE: 2001-06-13
/ PRIOR APPLICATION NUMBER: US 09/324.542
/ PRIOR FILING DATE: 1999-06-02
/ PRIOR APPLICATION NUMBER: US 08/997.080
/ NUMBER OF SEQ ID NOS: 194
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 114
/ LENGTH: 523
/ TYPE: PR
/ ORGANISM: Mycobacterium vaccae
US-09-880-505-114

Query Match 61.7%; Score 1643; DB 9; Length 523;
Best Local Similarity 62.7%; Pred. No. 4,4e-98;
Matches 328; Conservative 83; Mismatches 112; Indels 0; Gaps 0;

Oy 1 MAKEIKFSADARAAMVGVDMADTVKTLGPKGRNVYLEKAFSGPLITNDGVYIAKEIE 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 1 MAKTIADDEARFGLERGLNALADAVKTLGPKGRNVYLEKKNKCAPTITNDGVSTAKEIE 60
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 61 LEDHEFMGAKLVSEVASKTNDIAGDGTATVLTQAIYHGLKNTVYAGANPGRIGIE 120
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 61 LEDPEYKIGALVELYKAKTIDVAGDGTATVLTQALVREGLRNVAAGANPGLKRGIE 120
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 121 TATATVAEALKAIAQVSGKEAIAQVAASRSSEKVEYISAEAMERVNDGVITIEESRG 180
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 121 KAVEAVTOSLLSAKEVEYETKEQISATPAISAGDTQIGELIAEAMDKVNEGVIIEESNT 180
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 181 MELEVEVGEKQDFRGYLSQVMTDNEKVMADLENPELITTDKVSNIIDITLLEEVYK 240
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 181 FGLQLETEBEMFHDGYISGFVYTDAREAVLEDPYILVSSKSVYKQDLPLEKYVQ 240
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 241 TNRPLLIADVDGEALPTLVNKRIGTFNVAAKAPGDRRRKAMLEDAITLGGTYVT 300
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 241 AGKFLIIIAEDVEGEALSTLVNKRIGTFKFSVAKPFGDRRAALOMALITGGGVIS 300
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 301 EDLGLKATMTALGOAKITVDKSTVIEGSSSEAIANRILIKSOLETTSPDR 360
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 301 EEWGLTEADLSLGGARKVYVTKDETTIVBAGDTAINGRAIROIENSDDDR 360
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Oy 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDALNAPRAVEGIYAGGALTIV 420
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:
Db 361 EKLDERLAKLAGVAIVIKGAPFETALKEKRLIEDAVRNKAAVEGIYAGGALTIV 528
|:|||||:|||||:|||||:|||||:|||||:|||||:|||||:|||||:

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OY 421 IEKVALELEGDDATGRNIVLRALPEPVROIALNNGVSGVYIDKLNKSPAGTGFMAATG 480
DB 421 APALDDLGTDGDEATGANTVYALSAAPLKOIAFNGGEPGVAKKSNLPAGHGLMAATG 480
OY 481 EYWDIMKTGIDIPVYKVTBSALONAAVSASLITTEAVANKPE 523
DB 481 EYEDLLKAGVADPVKVTBSALONAASTALFLTEAVYADKPE 523

RESULT 12
US-10-068-059-10
Sequence 10, Application US/10068059
Patent No. US20020155434A1
GENERAL INFORMATION:
APPLICANT: Mizzzen, Lee A.
APPLICANT: Hongwei, Liu
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
FILE REFERENCE: 12071-017002
CURRENT APPLICATION NUMBER: US/10/068,059
PRIOR FILING DATE: 2002-06-04
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 10
LENGTH: 690
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Fusion protein
US-10-068-059-10

Query Match 61.7%; Score 1642.5; DB 9; Length 690;
Best Local Similarity 61.1%; Pred. No. 6,8e-98;
Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

OY 2 AKEIKFSADRAAMVRCVMDLADTVKVTGLGPKGRNVYLEKAFSPSLTNDGVTIKKEIL 61
DB 152 AKTIAYDEBARRGLEKGLNALADAVKVTGLGPKGRNVYLEKKNKAPTITNDGVSIKKEIL 211
OY 62 EDHEFNMGAKLYSEVASKTNDIAGDGTATVLTQAIYHEGLKAVTANPGIRGRIET 121
DB 212 EDPYEKIGAELEKAVAKTIDVAGDGTATVLAOLVREGLRVAAAGNPGLKRGIEK 271
OY 122 ATATVAEALKAIAQPVSGKEAIAQVAASRSKSEKVEYISEAMERVGNDGVITTEESRG 181
DB 272 AVEKVTETLLGAKKEVEKTEKQIAATAAISAGDOSIDGLIAEMDKVKGEGVITTEESNTP 331
OY 182 ETELEVVEGQFDRGYLSQYVNTDNEKNVADLENPELITTDKRVSNIDILPLEEVLKT 241
DB 332 GLOLETEGMRFPDKYISGYFTVDPEROEAVIDEYIILVSSKVSIVKDLLPLEKVIKA 391
OY 242 NRPLLIADDDVGEALPTVLNKRGTFFNVVAVKAPGGRKAMLEDAITLGGVYITE 301
DB 392 GKPLIIIAEDVEGALSTLVNKRGTFFSVAVKAPGGRKAMLEDAITLGGVYITE 451
OY 302 DIGLEIKDQMTALGOAAKITVDKSTVYEGSSSEALINRALKISOLETTSSDDRE 361
DB 452 EYGLTEENADLSLIGKAKKVVYTKDETTIVBAGDGTDAIGRYAQROETENSDDYDRE 511
OY 362 KLOERLAKIAGVAVIKVGAFTETALKEKRLIEDALNATRAAVEGIVAGGATLTVI 421
DB 512 KLOERLAKIAGVAVIKVGAFTETALKEKRLIEDAARNKAAVEGIVAGGATLLOAA 571
OY 422 EKVALELEGDDATGRNIVLRALPEPVROIALNNGVSGVYIDKLNKSPAGTGFMAATG 481
DB 572 PTLEDEKLEGEDEATGANIVKVALEAPLKOIAFNGGEPGVAKKSNLPAGHGLMAATG 631
OY 482 WYDMIKTIGIDIPVYKVTBSALONAAVSASLITTEAVANKPEPATPAPAMPAGMDPGMG 541
DB 632 YEDLLAAGVADPVKVTBSALONAASTALFLTEAVYADKPE--KKAASVPG--GDMG 686

OY 542 GM 543
DB 687 GM 688

RESULT 13
US-10-068-059-8
Sequence 8, Application US/10068059
Patent No. US20020155434A1
GENERAL INFORMATION:
APPLICANT: Mizzzen, Lee A.
APPLICANT: Hongwei, Liu
APPLICANT: Siegel, Marvin
TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
FILE REFERENCE: 12071-017002
CURRENT APPLICATION NUMBER: US/10/068,059
PRIOR FILING DATE: 2002-06-04
NUMBER OF SEQ ID NOS: 12
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 8
LENGTH: 709
TYPE: PRT
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Fusion protein
US-10-068-059-8

Query Match 61.7%; Score 1642.5; DB 9; Length 709;
Best Local Similarity 61.1%; Pred. No. 7.1e-98;
Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

OY 2 AKEIKFSADRAAMVRCVMDLADTVKVTGLGPKGRNVYLEKAFSPSLTNDGVTIKKEIL 61
DB 171 AKTIAYDEBARRGLEKGLNALADAVKVTGLGPKGRNVYLEKKNKAPTITNDGVSIKKEIL 230
OY 62 EDHEFNMGAKLYSEVASKTNDIAGDGTATVLTQAIYHEGLKAVTANPGIRGRIET 121
DB 231 EDPYEKIGAELEKAVAKTIDVAGDGTATVLAOLVREGLRVAAAGNPGLKRGIEK 290
OY 122 ATATVAEALKAIAQPVSGKEAIAQVAASRSKSEKVEYISEAMERVGNDGVITTEESRG 181
DB 291 AVEKVTETLLGAKKEVEKTEKQIAATAAISAGDOSIDGLIAEMDKVKGEGVITTEESNTP 350
OY 182 ETELEVVEGQFDRGYLSQYVNTDNEKNVADLENPELITTDKRVSNIDILPLEEVLKT 241
DB 351 GLOLETEGMRFPDKYISGYFTVDPEROEAVIDEYIILVSSKVSIVKDLLPLEKVIKA 410
OY 242 NRPLLIADDDVGEALPTVLNKRGTFFNVVAVKAPGGRKAMLEDAITLGGVYITE 301
DB 411 GKPLIIIAEDVEGALSTLVNKRGTFFSVAVKAPGGRKAMLEDAITLGGVYITE 470
OY 302 DIGLEIKDQMTALGOAAKITVDKSTVYEGSSSEALINRALKISOLETTSSDDRE 361
DB 471 EYGLTEENADLSLIGKAKKVVYTKDETTIVBAGDGTDAIGRYAQROETENSDDYDRE 530
OY 362 KLOERLAKIAGVAVIKVGAFTETALKEKRLIEDALNATRAAVEGIVAGGATLTVI 421
DB 531 KLOERLAKIAGVAVIKVGAFTETALKEKRLIEDAARNKAAVEGIVAGGATLLOAA 590
OY 422 EKVALELEGDDATGRNIVLRALPEPVROIALNNGVSGVYIDKLNKSPAGTGFMAATG 481
DB 591 PTLEDEKLEGEDEATGANIVKVALEAPLKOIAFNGGEPGVAKKSNLPAGHGLMAATG 650
OY 482 WYDMIKTIGIDIPVYKVTBSALONAAVSASLITTEAVANKPEPATPAPAMPAGMDPGMG 541
DB 651 YEDLLAAGVADPVKVTBSALONAASTALFLTEAVYADKPE--KKAASVPG--GDMG 705
OY 542 GM 543
DB 706 GM 707

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RESULT 14
US-10-068-059-12
: Sequence 12, Application US/10068059
: Patent No. US20020155434A1
: GENERAL INFORMATION:
: APPLICANT: Mizzen, Lee A.
: APPLICANT: Hongwei, Liu
: APPLICANT: Siegel, Marvin
: TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
: FILE REFERENCE: 12071-017002
: CURRENT APPLICATION NUMBER: US/10/068, 059
: CURRENT FILING DATE: 2002-06-04
: PRIOR APPLICATION NUMBER: US 60/266, 733
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 12
: LENGTH: 724
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Fusion protein
US-10-068-059-12

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Query Match 61.7%; Score 1642.5; DB 9; Length 724;

Best Local Similarity 61.1%; Pred. No. 7.3e-98;

Matches 331; Conservative 87; Mismatches 119; Indels 5; Gaps 2;

```

QY 2 AKEIFSADRAAMRGVDMADTVKTLGPKGRNVLEKAFSPITNDGVTAKETEL 61
DB 186 AKTIAYDEARGLERGLNLAADAVKTLGPKGRNVLEKKGAPITINDGVTAKETEL 245
QY 62 EDHFNMGALVSEVASKTNDIAGDGTATVLAQIYHGLKNTYAGNPIGIRGIE 121
DB 246 EDPYERKIGAEIVKAKTIDVAGDGTITATVLAQALVREGLRNVAAGANPLGKRIEK 305
QY 122 ATATAVALKALAPVSGKEALIAQVAASRSSEKVEYISEMERVGNDOGVITTEESRGM 181
DB 306 AVEKVTETLLKGAKEVEKKEQIAATAISAGDOSIDDLAEAMKQVNEGVITVEESNMF 365
QY 182 ETELEVVEGQFPGYLSQYVWTDNENKVAADLENPFILITDKKVSNIODILPLEEVLKT 241
DB 366 GLOLELTENMRFDKGYISGYFTVDPEROEALEDPYILLVSSKSVTKVLDLPLEKVI 425
QY 242 NRPLLIADVDGEALPTLVNKRIGTFNNVAAYVAGFGDRKRAMLEDIALITGGVTITE 301
DB 426 GRPLLIADVEGEALSTLVNKRIGTFKSVAVAGFGDRKRAMLEDIALITGGVITSE 485
QY 302 DLGLELDATMTALGOAAKITVDKSTIVYEGSSSEAIANRIALIKSOLETTSDPDRE 361
DB 486 EVGLITENADLSLGKARKVYTKDETTIVEGAGTDALAGRVNOIKOLEIENSDDSYDRE 545
QY 362 KLOERLAKLAGVAVIKVAGPTEETALKERKRIEDALNATRAVEEGIVAGCGTALTIV 421
DB 546 KLOERLAKLAGVAVIKVAGPTEETALKERKRIEDALNATRAVEEGIVAGCGTALTIV 605
QY 422 EKVALELEGGDATGRNIVLALPEPVQIALNAGESGVYIDLKNSPAGTGFNAATGE 481
DB 606 PTLEDELLEGGDATGRNIVLALPEPVQIALNAGESGVYIDLKNSPAGTGFNAATGE 665
QY 482 WDMIKTGIIDPKYTRSAIONAASVASLITTEAVVANKPEPATPAPAMPAGMDGKMG 541
DB 666 YEDLLAGVADPVKTRSAIONAASIASGLFITEAVVADKPE--KERASVPGC---GDMG 720
QY 542 GM 543
DB 721 GM 722

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RESULT 15
US-10-068-059-6

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: Sequence 6, Application US/10068059
: Patent No. US20020155434A1
: GENERAL INFORMATION:
: APPLICANT: Mizzen, Lee A.
: APPLICANT: Hongwei, Liu
: APPLICANT: Siegel, Marvin
: TITLE OF INVENTION: HEPATITIS B VIRUS TREATMENT
: FILE REFERENCE: 12071-017002
: CURRENT APPLICATION NUMBER: US/10/068, 059
: CURRENT FILING DATE: 2002-06-04
: PRIOR APPLICATION NUMBER: US 60/266, 733
: NUMBER OF SEQ ID NOS: 12
: SOFTWARE: FASTSEQ for Windows Version 4.0
: SEQ ID NO 6
: LENGTH: 746
: TYPE: PRT
: ORGANISM: Artificial Sequence
: FEATURE:
: OTHER INFORMATION: Fusion protein
US-10-068-059-6

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Query Match 61.6%; Score 1639.5; DB 9; Length 746;

Best Local Similarity 60.9%; Pred. No. 1.2e-97;

Matches 330; Conservative 88; Mismatches 119; Indels 5; Gaps 2;

```

QY 2 AKEIFSADRAAMRGVDMADTVKTLGPKGRNVLEKAFSPITNDGVTAKETEL 61
DB 208 AKTIAYDEARGLERGLNLAADAVKTLGPKGRNVLEKKGAPITINDGVTAKETEL 267
QY 62 EDHFNMGALVSEVASKTNDIAGDGTATVLAQIYHGLKNTYAGNPIGIRGIE 121
DB 268 EDPYERKIGAEIVKAKTIDVAGDGTITATVLAQALVREGLRNVAAGANPLGKRIEK 327
QY 122 ATATAVALKALAPVSGKEALIAQVAASRSSEKVEYISEMERVGNDOGVITTEESRGM 181
DB 328 AVEKVTETLLKGAKEVEKKEQIAATAISAGDOSIDDLAEAMKQVNEGVITVEESNMF 387
QY 182 ETELEVVEGQFPGYLSQYVWTDNENKVAADLENPFILITDKKVSNIODILPLEEVLKT 241
DB 388 GLOLELTENMRFDKGYISGYFTVDPEROEALEDPYILLVSSKSVTKVLDLPLEKVI 447
QY 242 NRPLLIADVDGEALPTLVNKRIGTFNNVAAYVAGFGDRKRAMLEDIALITGGVTITE 301
DB 448 GRPLLIADVEGEALSTLVNKRIGTFKSVAVAGFGDRKRAMLEDIALITGGVITSE 507
QY 302 DLGLELDATMTALGOAAKITVDKSTIVYEGSSSEAIANRIALIKSOLETTSDPDRE 361
DB 508 EVGLITENADLSLGKARKVYTKDETTIVEGAGTDALAGRVNOIKOLEIENSDDSYDRE 567
QY 362 KLOERLAKLAGVAVIKVAGPTEETALKERKRIEDALNATRAVEEGIVAGCGTALTIV 421
DB 568 KLOERLAKLAGVAVIKVAGPTEETALKERKRIEDALNATRAVEEGIVAGCGTALTIV 627
QY 422 EKVALELEGGDATGRNIVLALPEPVQIALNAGESGVYIDLKNSPAGTGFNAATGE 481
DB 628 PTLEDELLEGGDATGRNIVLALPEPVQIALNAGESGVYIDLKNSPAGTGFNAATGE 687
QY 482 WDMIKTGIIDPKYTRSAIONAASVASLITTEAVVANKPEPATPAPAMPAGMDGKMG 541
DB 688 YEDLLAGVADPVKTRSAIONAASIASGLFITEAVVADKPE--KERASVPGC---GDMG 742
QY 542 GM 543
DB 743 GM 744

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Search completed: April 8, 2003, 14:33:43
Job time : 40 secs